FAYETTE County 2020 INVENTORY, APPRAISAL & INSPECTION SNAPSHOT

2/9/2021

Inventory Data - NBIS Bridges Only

	NBIS COUNT
NBIS Bridges > 20'	129
Bridges 10'-20'	92
	221

ltem 221	Inspectio	n Responsibility	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab Col	BV,BW	County	2	129	221
ltem 21	Maintena	ance responsibility	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab		County	2	129	221
Col D		City or other local	4	0	0
		Railroad	27	0	0
		Private (tohter than RR)	26	0	0
		State Park	11	0	0
		Local Park	23	0	0
		Township	3	0	0
				129	221
Item 42A	Type serv	vice on bridge	CODE	# NBIS	# ALL
Data Tab	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Other	0	0	0
Col Q		Highway	1	129	221
		Railroad	2	0	0
		Ped/Bikeway	3	0	0
		Hwy/RR	4	0	0
		Hwy/Ped	5	0	0
				129	221
Hans 420	T	ing under huiden	60D5	# NDIC	# 611
Item 42B	Type serv	vice under bridge	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab		Other	0	0	0
Col R		Hwy w/ or w/o Ped	1	0	0
		Railroad	2	1	1
		Ped/Bkwy	3	0	0
		Hwy w/ RR	4	0	0
		Waterway	5	128	220
		Hwy/Waterway	6	0	0
		RR/Waterway	7	0	0
		Hwy/Waterway/RR	8	0	0
		Relief (for waterways)	9	0	0
				129	221

ITEMS 43A,B,C Structure Type	Data (Col M.N,O)	CODE	<u># NBIS</u>	<u># ALL</u>
Concrete Slab		101	11	36
Concrete Tee Beam		104	2	2
Concrete Box Beam/Girder Multiple		105	3	4
Concrete Frame		107	1	12
Concrete Culvert (incl frame culverts)		119	3	38
Concrete Continuous Slab		201	5	5
Steel Beam or Girder		302	4	7
Steel Thru Truss (inlcudes Pony)		310	8	8
Steel Culvert (incl frame culverts)		319	3	11
Steel Continuous Beam or Girder		402	5	5
Prestressed Concrete Thru Arch		502	3	3
Prestr. Conc. Cont. Box Beam/Girder Mult	iple	505	81	84
Aluminum or Iron Culvert (incl frame culv	erts)	919	0	6
			129	221

Item 92A	Fracture Critical	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	Requires FC Inspection	Y	8	n/a
Col U,V,Y	Requires FC Inspection	Ν	121	n/a
			129	n/a
	FC Switch Y/N is Blank		0	n/a

ltem 113	Scour			<u># NBIS</u>	<u># ALL</u>
Data Tab		Bridge not over waterway	Ν	1	1
Col AA		unknown foundation	U	0	0
		over tidal waters	Т	0	0
		foundations on dry land	9	8	11
		stable above footing	8	102	174
		countermeasures installed	7	1	3
		no scour evaluation made	6	0	0
		stable within footer limits	5	17	32
		stable action needed	4	0	0
		scour critical - unstable	3	0	0
		scour critical - scour present	2	0	0
		scour critical - failure imminent	1	0	0
		scour critical - bridge failed	0	0	0
				129	221

ltem 63	Documented Engineering Judgment		<u># NBIS</u>	<u># ALL</u>
	Field Eval & Doc EJ		34	n/a
	BR_100 for th	ese bridges?		
Item 92B	Underwater	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	requires dive inspection	Ν	129	n/a
Col W,X,Z	requires dive inspection	Y	0	n/a
			129	
	dive insp date blank but Dive=Y		0	n/a
L				ny a
			" 11010	
Item 709	Plan Information	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab Col. AW	plans not avail plan avail	0 1	39 86	85 130
COI. AVV	field measured	2	0	130
	Field Testing	3	2	2
	not applicable	N	2	2
			129	219
Item 63	Method of Analysis	CODE	# NBIS	<u># ALL</u>
Data Tab	Field Eval & Doc. Eng Judgment	0	34	77
Col. AV	Load testing	4	0	0
	No Rating done	5	0	0
	Load Factor (LF)	6	82	0
	WS or AS	7	0	0
	Load & Resistance Factor	8	13	13
	Assigned Rating (LFR) HS20	D	0	102
	Assigned Rating (LRFR) HL93	F	0	7
	Not applicable (Ped, RR, Bldg)	Х	0	22
			129	221
REMINDE	R:			
	Load Easter required for bridges built after 1002	lovcor	tions timbor atc	1

Load Factor required for bridges built after 1993 LRFR required for bridges built after 2010 (exceptions: timber, etc,)

Inspection Condition Data - NBIS Bridges Only

ltem 41	Operating Status	CODE	<u># NBIS</u>	<u># ALL</u>
Data Tab	Open, No restriction	А	128	219
Col AM	Open, posting recommended	В	0	0
	Open, Half width constr.	С	0	0
	Open because of temp. fix	D	0	0
	Open using temp. structure	E	0	0
	New struture not yet open	G	0	0
	closed for load cap. reason	К	0	0
	Posted for load capacity	Р	1	2
	Posted for other than load	R	0	0
	Closed for other than load	Х	0	0
			129	221

	Load Rating Data	
Load Rating	Tab	# OF ERRORS
Col. AN	Op RF greater than Inv RF?	0
Col. AO	Posting and % Legal OK?	0
Col. AP	"0" used instead of blank	0
Col. AT	% legal <> lowest RF	0
Col.A V	Item 70 correct?	0
Col. AW	Method of Rating Alike?	0
Col. AX	Op & Inv RF in Tons as req'd?	0
Col. AY	Item 575 correct?	0
Col. AZ	Depth of fill completed?	0

KEY METRICS

(C)	Compliant
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(SC) Substantially Compliant

 (CC) Conditionally Compliant
(NC) Non- Compliant
(NC) (SC) If corrected within 6/12 months Refresher=6 mo, Comprehensive=12 mo

METRIC 2 - Program Manager Qualification	(from files	examination)		
From Files review	Missing	#sampled	<u>% PASS</u>	COMPLIANCE
PE /Experience	0	1	100.0%	(C)
Comprehensive	0	1	100.0%	(C)
Refresher	0	1	100.0%	(C)

METRIC 3 - Team Leader Qualification	(from files examination)			
From Files review	Missing	#sampled	<u>% PASS</u>	COMPLIANCE
Degree /Experience	0	2	100.0%	(C)
Comprehensive	0	2	100.0%	(C)
Refresher	0	2	100.0%	(C)

METRIC 6 Insp. Frequency Routine

Bridge In	spections	Overdue	# OVERDUE	<u>% PASS</u>	COMPLIANCE
Data Tab	NBIS -	24 months	0	100.0%	(C)
Col. AB	ORC -	Calendar Year	0	100.0%	(C)
	BIM -	18 months	0	100.0%	(C)

METRIC 8 - Insp. Frequency Underwater

Dive Inspections O	Verdue	# OVERDUE	# UW	<u>% PASS</u>	COMPLIANCE
Data Tab Col. Z	60 months	0	0	100.0%	(C)

METRIC 10 - Insp. Frequency FC Member

FC Inspections Over	rdue	<u># OVERDUE</u>	# FC	<u>% PASS</u>	COMPLIANCE
Data Tab Col. Y	24 months	0	8	100.0%	(C)

METRIC 12 - Routine Inspection

Field Ratin	ngs	# > +/-1	# sampled	<u>% PASS</u>	COMPLIANCE
field ratings		0	24	100.0%	(C)
Comments		Missing	# sampled	<u>% PASS</u>	
Tab	Comments when Rating < 6	5	128	96.1%	(C)
Inadequate Comments		5	6	16.7%	(NC)
		Error	Total Scour	<u>% PASS</u>	
Comments	Rating should be = Scour	2	128	98.4%	within tolerance +/- 1
Tab	Noncompliant Scour Rating Err	0	128	100.0%	(C)

METRIC 14 - Posting Load rating data tab

From Files review	# errors	#sampled	<u>% PASS</u>	COMPLIANCE
Op RF < 3 tons but not closed	0	129	100.0%	(C)
Op RF = 0 but not closed	0	129	100.0%	(C)

% Legal < 100 but not posted	0	129	100.0%	(C)
Item 41 = B	0	129	100.0%	(C)

METRIC 16 - Fracture Critical Inspection

From Files review	Missing	# FC	<u>% PASS</u>	COMPLIANCE
Fract Critical Member ID	0	2	100.0%	(C)
Fatigue Prone Detail	0	2	100.0%	(C)
Gusset Plate Calculations	0	2	100.0%	(C)
FC Inspection Procedure	0	2	100.0%	(C)

METRIC 17 - Underwater Inspection

From Files review	Missing	# UW	<u>% PASS</u>	COMPLIANCE
UW Inspection Procedure	0	1	100.0%	(C)
Location of UW elements	0	1	100.0%	(C)
UW frequency identified	0	1	100.0%	(C)

PRELIMINARY FHWA 23 Metric Matrix

23 metrics used by FHWA to measure NBIS compliance

Compliance Codes for the following Metrics:

- (C) Compliant
- (SC) Substantially Compliant
- (CC) Conditionally Compliant (Adhering to approved PCA)
- (NC) Not Compliant

Metric	Description	(C)	(SC)	(CC)	(NC)
1	State Bridge Inspection Organization				
2	Program Manager Qualification				
3	Team Leader Qualification				
4	Load Rating Engineer Qualification				
5	UW Bridge Inspection Diver Qualification				
6	Routine Inspection Frequency - Low Risk				
7	Routine Inspection Frequency - High Risk				
8	UW Inspection Frequency - Low Risk				
9	UW Inspection Frequency - High Risk				
10	FC Inspection Frequency				
11	Frequency Criteria				
12	Inspection Quality				
13	Load Rating				
14	Posted or Restricted Bridges				
15	Bridge Files				
16	FC Bridges				
17	UW inspection procedures				
18	Scour Critical Bridges				
19	Complex Bridges				
20	QC/QA				
21	Critical Findings				
22	Inventory **				
23	Updating of Data				

** based on results of Field Review

M	<u>etric</u>	Action Needed	
	40		9

12 Complete detailed comments are needed when the rating <=5